USING THINNERLAMINATIONS TO REDUCE OPERATING TEMPERATURE IN A HIGH SPEED HAND-HELD SURGICAL POWER TOOL

ABSTRACT OF THE DISCLOSURE

A surgical instrument having an electric motor is discussed. The motor includes a motor output member, a driven member and a driving member. The driven member is coupled to the motor output member. The driving member includes a winding and a magnetically conductive portion comprising a plurality of laminations having thicknesses of less than 0.25 mm. The driving member, or at least the magnetically conductive portion thereof, is disposed proximate the driven member such that energizing the driving member imparts motion to the driven member.